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WATER SUPPLY OUTLOOK FOR ARIZONA

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APR -5 1967

CURRENT SERIAL RECORDS

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

UNITED STATES DEPARTMENT of AGRICULTURE--SOIL CONSERVATION SERVICE.
SALT RIVER VALLEY WATER USERS ASSOCIATION
and
ARIZONA AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies named above in cooperation with the Federal, State and private organizations listed on the last page of this report.

AS OF
MAR. 1, 1967

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season as they affect runoff will add to be an effective average. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data or reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

Listed below are water supply outlook reports based on Federal-State-Private Cooperative snow surveys. Those published by the Soil Conservation Service may be obtained from Soil Conservation Service, Room 507, Federal Building, 701 N. W. Glisan, Portland, Oregon 97209.

PUBLISHED BY SOIL CONSERVATION SERVICE

D. A. WILLIAMS, Administrator

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 507, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85205
Colorado (N. Mex.)	12417 Federal Building, Denver, Colorado 80202
Idaho	P. O. Box 38, Boise, Idaho 83701
Montana	P. O. Box 855, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4001 Federal Building, Salt Lake City, Utah 84111
Washington	840 Bon Marche Bldg., Spokane, Washington 99206
Wyoming	P. O. Box 340, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK
and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS
for
ARIZONA

(Salt, Verde, Gila and Part of Lower Colorado River Basin)

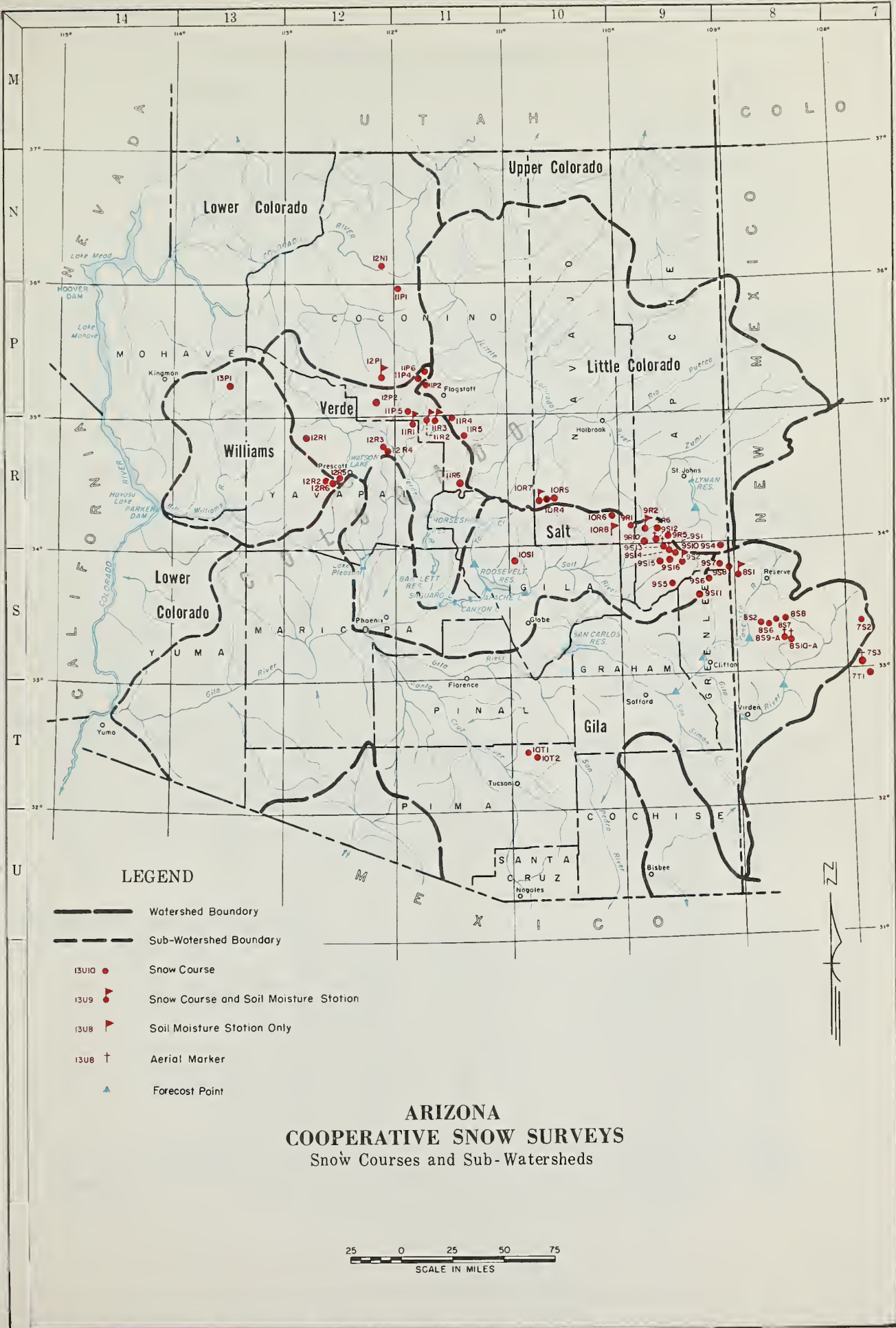
Report prepared by

RICHARD W. ENZ...SNOW SURVEY SUPERVISOR
SOIL CONSERVATION SERVICE
ROOM 6029 FEDERAL BUILDING
PHOENIX, ARIZONA 85025

Issued by

MERRITT D. BURDICK
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE

VICTOR I. CORBELL
PRESIDENT ,
SALT RIVER VALLEY WATER USERS ASSOCIATION



STREAM FLOW FORECASTS - MARCH 1, 1967

The following summarized runoff forecasts are based principally on mountain snow cover and on the assumption that precipitation and temperature will be near average from the present time to the end of the forecast period. Appreciable deviations from normal of temperature and/or precipitation will correspondingly modify these forecasts.

SUB-WATERSHED, STREAM and STATION	SEASONAL STREAM FLOW IN THOUSANDS OF ACRE FEET					
	FORECAST PERIOD:		MARCH - MAY, INCLUSIVE			
	Forecast Runoff 1967	Percent 15-Year Average	Measured Runoff			1948-62 Average
			1966	1965	1964	
Salt River near Roosevelt	55	24	483.8	396.0	93.1	226.4
Tonto River near Roosevelt	13	51	15.4	77.0	9.6	25.4
Verde River above Horseshoe	60	53	132.2	365.5	90.4	113.7
Gila River near Gila	14	39	91.1	32.6	12.0	35.5
Gila River near Virden	10.5	26	111.5	36.1	10.3	39.7
Gila River near Solomon	19	25	227.7	69.4	17.3	77.7
" " " " Month of March	8	21	148.7	30.2	6.6	38.7
Frisco River at Clifton	10	25	111.0	38.8	9.9	40.5
Frisco River near Glenwood	3.5	20	56.2	16.4	2.3	17.3
Mimbres River near Mimbres	0.5	18	---	0.7	0.7	2.7
Little Colorado River above Lyman Dam (MARCH-JUNE, Incl.)	0.9	10	21.2	18.6	4.5	8.7
Virgin River near Virgin (APRIL-JUNE, Incl.) *	34	79	39.0	63.0	37.0	43.0
Virgin River near Littlefield (APRIL-JUNE, Incl.) *	29	68	---	63.0	26.0	43.0

Granite Creek is expected to flow 300 Acre Feet raising Watson Lake to 3/4 of capacity.

The Gila River near Solomon is forecast to flow above 100 cfs until March 20.

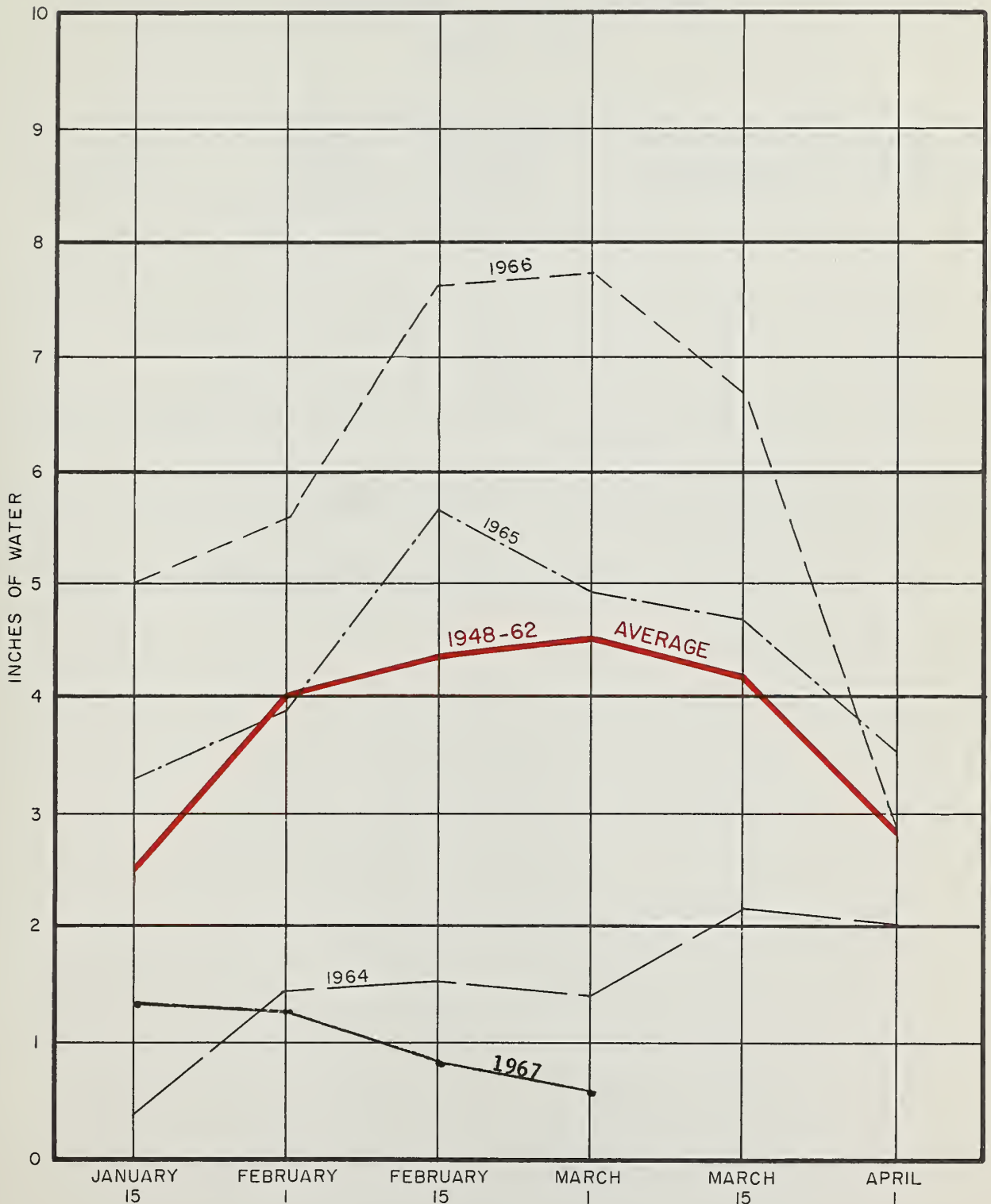
* Forecast issued by Soil Conservation Service, Salt Lake City, Utah.

STATUS OF ARIZONA RESERVOIR STORAGE - ABOUT MARCH 1, 1967

SUB- WATERSHED and/or STREAM	RESERVOIR	USABLE CAPACITY 1000's ACRE FT.	USABLE STORAGE - 1000s ACRE FEET			
			1967	1966	1965	15-Year Average 1948-62
<u>GILA RIVER DRAINAGE</u>						
Agua Fria	Lake Pleasant	157.6	125.8	157.6	23.0	30.7
Granite "	Watson Lake	4.7	3.3	4.7	3.3	---
	Willow Creek	6.1	4.0	6.1	---	---
Gila	San Carlos	1,206.0	304.6	409.5	75.1	74.4
Verde	Bartlett	179.5	126.0	154.3	142.6	79.3
Verde	Horseshoe	142.8	32.5	112.1	7.8	25.2
Salt	Roosevelt	1,382.0	1,121.2	1,243.4	472.2	426.3
Salt	Apache	245.0	241.8	237.0	232.1	203.6
Salt	Canyon	58.0	53.5	55.9	51.6	48.7
Salt	Saguaro	70.0	61.1	50.9	65.4	53.1
<u>COLORADO RIVER DRAINAGE</u>						
Colorado	Lake Havasu	619.4	531.9	545.4	517.5	546.5
Colorado	Lake Mohave	1,810.0	1,662.0	1,699.0	1,682.0	1,566.2*
Colorado	Lake Mead	27,207.0	15,617.0	15,589.0	11,352.0	17,036.1
Colorado	Lake Powell	25,002.0	7,525.0	8,747.8	6,223.0	---
Little Colo.	Lyman	30.6	17.7	21.0	11.0	7.3
Little Colo.	Show Low Lake	5.1	0.4	5.1	3.0	1.3*

*Average is for less than 15 years of record in the 1948-62 period.

RELATIVE SNOW WATER ACCUMULATION ARIZONA 1967



This graph represents the average snow water content on eleven selected snow courses on Arizona Sub-Watersheds.

SNOW COVER ON ARIZONA WATERSHEDS

MARCH 1, 1967

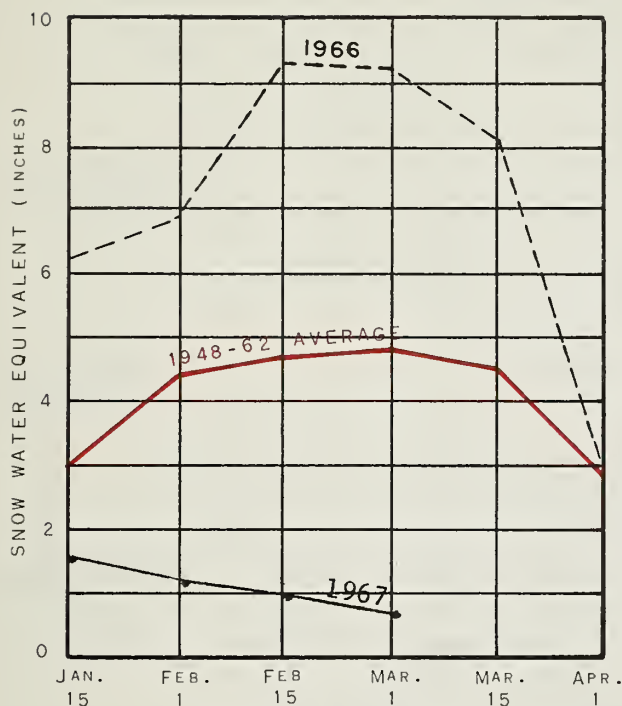
Watershed	No. of Courses Average	Water Content of Snow (Inches)	This Year's Water Content of Snow Expressed as Percent of:	
			Last Year	Average *
Gila	7	.03	0%	1%
Salt	10	0.6	7%	13%
Verde	7	0.14	3%	3%
Little Colorado	4	1.0	10%	17%

* Actual or Estimated 1948-62, 15-year Average

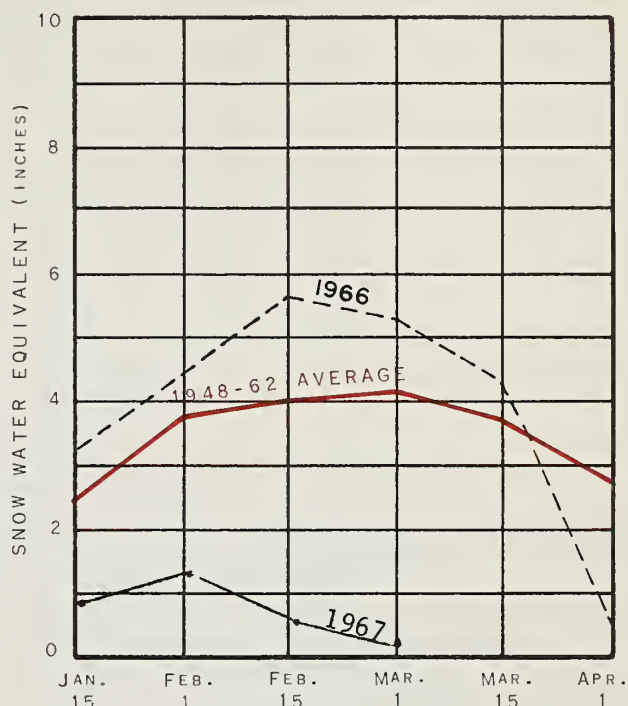
1967

ARIZONA SNOW COVER

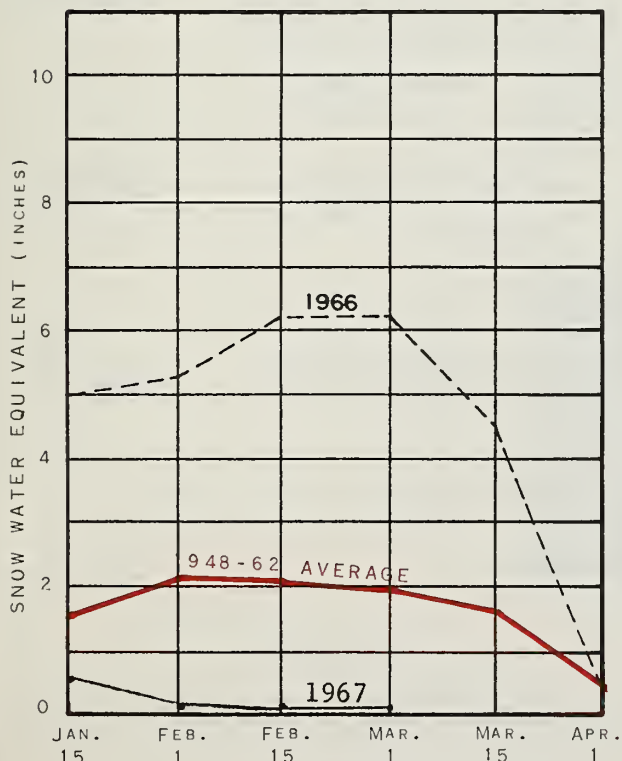
BY WATERSHEDS



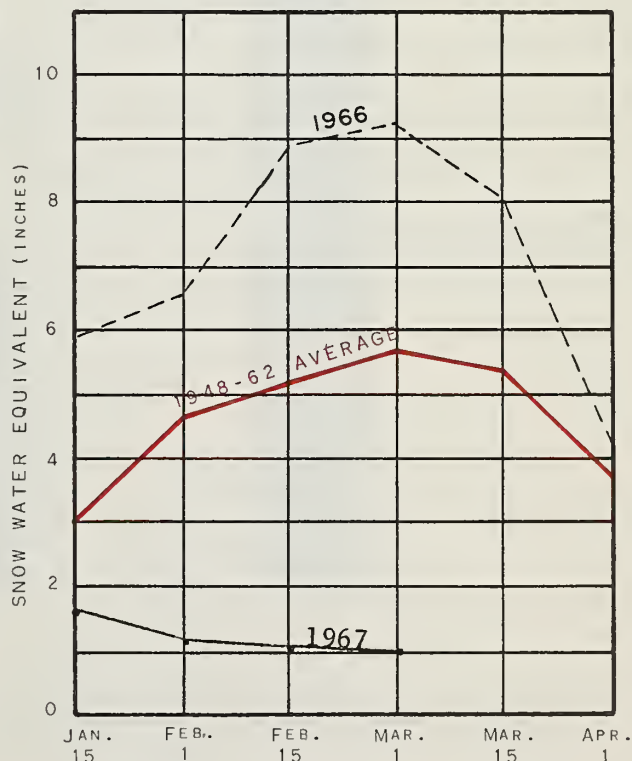
SALT RIVER



VERDE RIVER



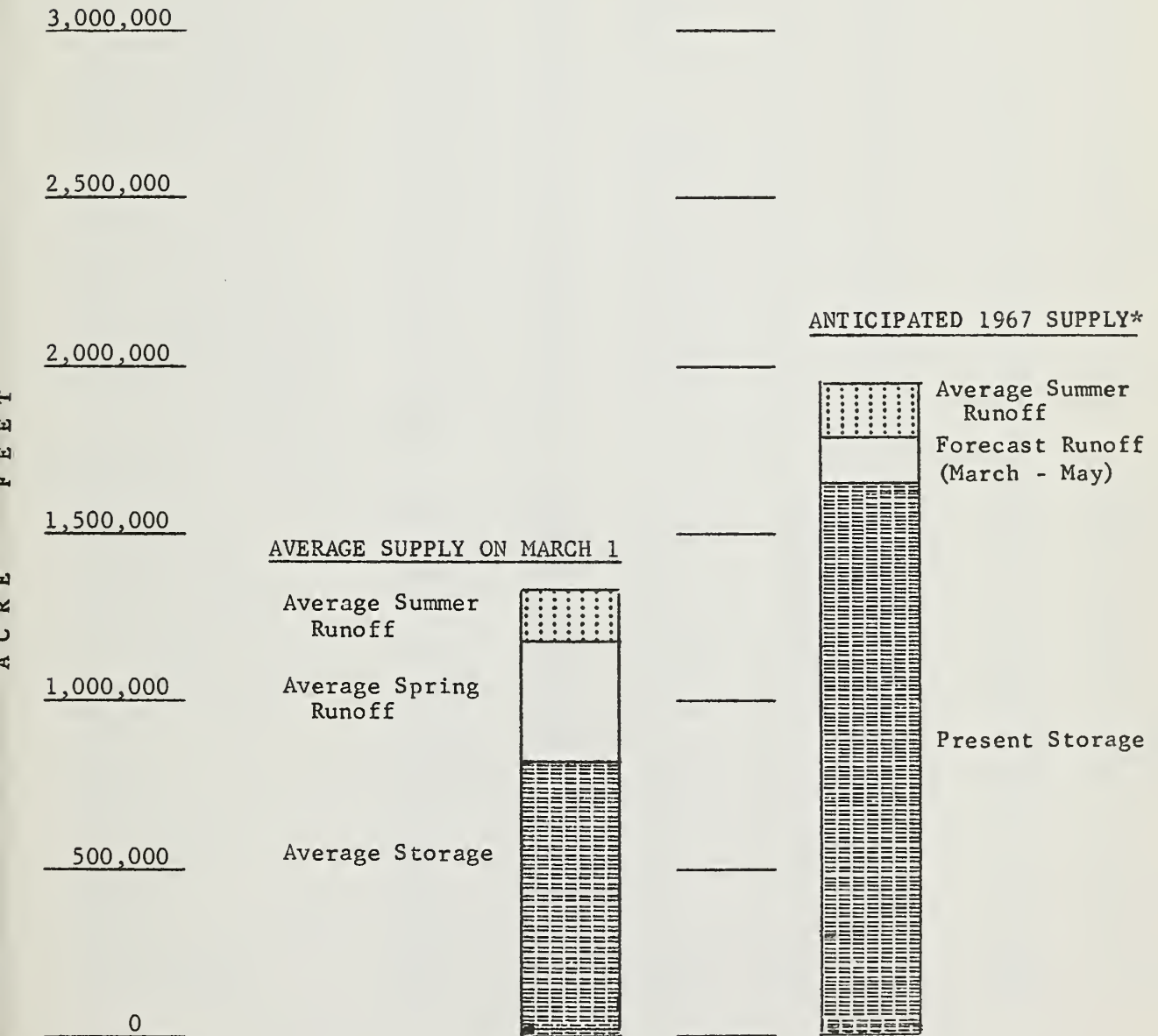
GILA RIVER



LITTLE COLORADO RIVER

BASED ON SELECTED SNOW SURVEY COURSES

WATER SUPPLY INVENTORY
SALT RIVER VALLEY SYSTEM
MARCH 1, 1967



* Based on present Storage + Forecast Spring runoff + Average Summer runoff

SNOW ABOUT MARCH 1, 1967

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^a

GILA RIVER

Bear Wallow	10T1	8100	2/28	0	0.0	16.9	3.5
Beaver Head	9S6	8000	2/27	2	0.2	9.0	2.8
Coronado Trail	9S7	8000	3/1	0	0.0	9.1	2.5
Crazy Horse (A)	9T2-A	10200	-	-	---	28.0	---
Emory Pass #1 *	7T1	7800	2/23	0	0.0	---	---
Emory Pass #2 *	7T2	7800	2/23	0	0.0	---	---
Frisco Divide	8S1-M	8000	2/28	T	0.0	7.0	2.1
Hannagan Meadows *	9S11	9090	2/27	11	1.6	17.1	---
High Peak (A)	9T1-A	10600	-	-	---	29.0	---
Hummingbird (A)	8S9-A	10550	2/28	15	2.8	23.0	---
Ice King	8S6	8020	2/28	6	1.6	10.2	---
Inman	7S2	7800	2/28	0	0.0	0.6	0.4
McKnight Cabin *	7S3	9300	3/1	2	0.7	---	---
Mogollon	8S2	7000	2/28	T	0.0	3.1	2.0**
Nutrioso	9S4	8500	3/1	0	0.0	6.9	1.9
Redstone Trail	8S7	8600	2/28	8	2.9	12.9	---
Rose Canyon	10T2	7300	2/28	0	0.0	11.6	1.5
Silver Creek Divide	8S8	9000	2/28	17	4.8	19.9	---
State Line	9S8	8000	2/28	0	0.0	8.2	2.2
Whitewater (A)	8S10-A	10750	2/28	38	8.1	28.0	---

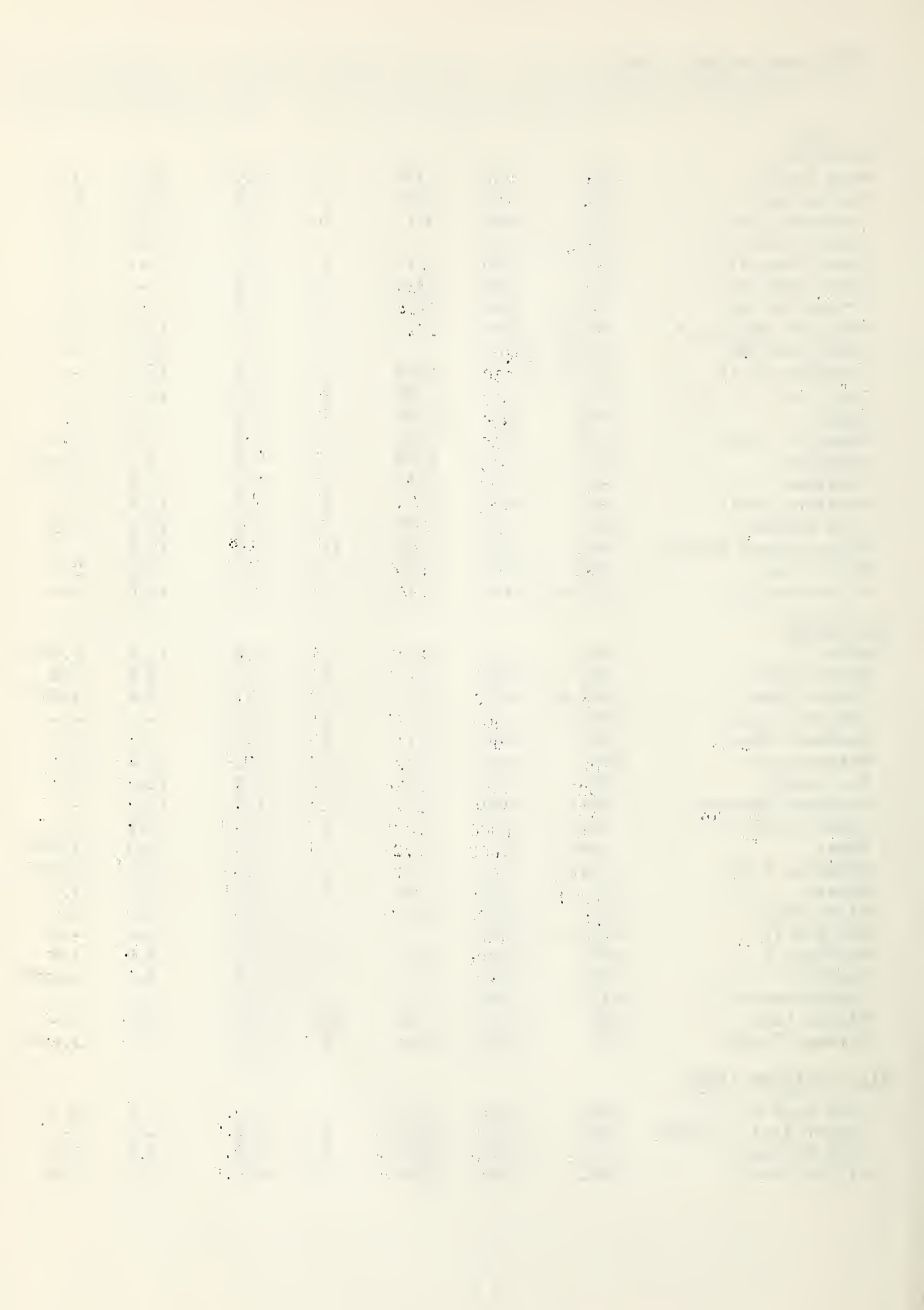
SALT RIVER

Baldy	9S1	9125	2/26	5	0.9	12.8	8.9**
Beaver Head	9S6	8000	2/27	2	0.2	9.0	2.8
Canyon Creek	10R7-M	7500	2/27	T	0.1	5.4	3.5**
Canyon Point	10R8	7600	2/27	T	0.0	---	---
Coronado Trail	9S7	8000	3/1	0	0.0	9.1	2.5
Forest Dale	10R6	6430	2/28	0	0.0	1.4	0.7
Ft. Apache	9R5	9160	2/26	10	2.9	11.7	9.5
Hannagan Meadows	9S11	9090	2/27	11	1.6	17.1	---
Hawley Lake	9R10	8300	2/28	0	0.0	8.6	---
Heber	10R4	7600	2/27	1	0.3	6.3	3.6**
Maverick Fork	9S2	9050	2/26	6	1.7	16.6	10.8**
McNary	9R2-M	7200	2/28	0	0.0	5.9	2.1
Milk Ranch	9R1	7000	2/28	0	0.0	2.9	1.0
Mt. Ord (A)	9S12-A	11000	-	-	---	---	---
Nutrioso *	9S4	8500	3/1	0	0.0	6.9	1.9
Pacheta	9S5	7800	2/28	0	0.0	9.6	3.4**
Smith Cienega (A)	9S14-A	9850	-	-	---	---	---
Wilson Lake	9R6	9100	2/26	16	5.2	12.3	---
Workman Creek	10S1	6900	2/28	1	0.2	8.7	3.6**

BILL WILLIAMS RIVER

Camp Wood *	12R1	5700	2/27	0	0.0	0.0	0.9
Copper Basin Divide	12R6	6720	2/28	0	0.0	4.2	---
Iron Springs	12R2	6200	2/28	0	0.0	0.7	1.1
Willow Ranch	13P1	5000	2/28	0	0.0	0.0	0.4

(a) 1948-62, 15 year period. (*) Adjacent drainage. (**) 1948-62 Adjusted Average. (A) Aerial observation: Water content estimated.



SNOW ABOUT MARCH 1, 1967

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^a

VERDE RIVER

Baker Butte	11R6	7300	2/27	0	0.0	10.7	---
Camp Wood	12R1	5700	2/27	0	0.0	0.0	0.9
Chalender	12P1-M	7100	2/27	1	0.3	5.4	3.2
Copper Basin Divide	12R6	6720	2/28	0	0.0	4.2	---
Fort Valley	11P2	7350	3/1	0	0.0	4.5	2.6
Gaddess Canyon	12R4	7600	2/28	0	0.0	8.2	5.3**
Happy Jack	11R5	7630	2/28	0	0.0	5.8	4.4**
Iron Springs *	12R2	6200	2/28	0	0.0	0.7	1.1
Mingus Mountain	12R3	7100	2/28	0	0.0	2.4	1.2
Mormon Lake *	11R4	7350	2/27	1	0.4	6.2	4.9
Mormon Mountain	11R3-M	7500	2/27	T	0.3	7.3	7.2**
Munds Park	11R1-M	6500	2/27	0	0.0	3.7	2.7**
Newman Park	11P5-M	6750	2/27	0	0.0	3.8	---
Snow Bowl #1	11P4	10260	2/28	22	7.2	13.4	---
Snow Bowl #2	11P6	11200	2/28	41	15.0	21.7	---
White Spar	12R5	6000	2/28	0	0.0	0.4	---
White Horse Lake Jct.	12P2	7180	2/27	1	0.3	---	---

LOWER COLORADO RIVER

Bill Williams Summit	12P4	8950	2/27	20	7.3	---	---
Bill " Intermediate	12P5	8550	2/27	13	4.7	---	---
Bright Angel	12N1	8400	2/27	13	4.5	---	9.6**
Chalender	12P1-M	7100	2/27	1	0.3	5.4	3.2
Fort Valley	11P2	7350	2/28	0	0.0	4.5	2.6
Grand Canyon	11P1	7500	2/28	T	0.0	3.3	2.2
Williams Ski Run	12P3	7720	2/27	10	3.3	---	---

LITTLE COLORADO RIVER

Baldy	9S1	9125	2/26	5	0.9	12.8	8.9**
Canyon Creek	10R7-M	7500	2/27	T	0.1	5.4	3.5**
Canyon Point	10R8	7600	2/27	T	0.0	---	---
Forest Dale	10R6	6430	2/28	0	0.0	1.4	0.7
Ft. Apache	9R5	9160	2/26	10	2.9	11.7	9.5**
Fort Valley	11P2	7350	3/1	0	0.0	4.5	2.6
Happy Jack *	11R5	7630	2/28	0	0.0	5.8	4.4**
Heber	10R4	7600	2/27	1	0.3	6.3	3.6**
McNary	9R2-M	7200	2/28	0	0.0	5.9	2.1
Mormon Lake	11R4	7350	2/27	1	0.4	6.2	4.9
Mormon Mountain	11R3-M	7500	2/27	T	0.3	7.3	7.2**
Nutriosos	9S4	8500	3/1	0	0.0	6.9	1.9
Snow Bowl #1	11P4	10260	2/28	22	7.2	13.4	---
Snow Bowl #2	11P6	11200	2/28	41	15.0	21.7	---
Wilson Lake *	9R6	9100	2/26	16	5.2	12.3	---

(a) 1948-62, 15 year period. (*) Adjacent drainage. (**) 1948-62 Adjusted Average. (A) Aerial observation; Water content estimated.

PRECIPITATION

STORAGE GAGE DATA - ABOUT MARCH 1, 1967

Drainage Basin and Storage Basin	Elev.	<u>Current Data</u>		1948-62	<u>From Approx. 11/1 to Date</u>		
		Date of	February	Av. Feb.	This	1948-62	% of
		Reading	Precip.	Precip.	Year	Average	Average
<u>GILA RIVER</u>							
Silver Creek Divide	9000	2/28	1.30	---	6.50	---	---
Hannagan Meadows	9030	2/27	1.30	2.02*	6.84	10.53*	65
<u>SALT RIVER</u>							
Canyon Point	7600	2/27	.12	---	11.95	---	---
Hannagan Meadows	9030	2/27	1.30	2.02*	6.84	10.53*	65
Little Wildcat	7600	2/27	.15	2.75*	8.27	10.97*	75
(Heber Snow Course)							
Maverick Fork	9050	2/26	.85	2.34*	6.17	9.21*	67
Workman Creek **	6970	2/28	.26	2.84	11.26	13.54	84
Wilson Lake	9100	2/26	.50	---	5.21	---	---
<u>VERDE RIVER</u>							
Baker Butte	7300	2/27	.00	---	10.54	---	---
Copper Basin Divide	6720	2/28	.00	---	7.96	---	---
Fort Valley **	7350	2/28	.00	1.86	8.88	7.16	123
Happy Jack **	7480	2/28	.00	2.05*	7.31	9.15*	80
Mingus Mountain	7660	2/28	.00	2.11	4.20	8.00	53
Mormon Mountain	7500	2/27	.00	---	19.45	---	---
<u>LITTLE COLORADO</u>							
Sheep Crossing	9125	2/26	.60	2.12*	5.63	8.35*	67
(Baldy Snow Course)							
Little Wildcat	7600	2/27	.15	2.75*	8.27	10.97*	75
(Heber Snow Course)							

* 1948-62 Adjusted Average

** Data supplied by U. S. Forest Service

ARIZONA SOIL MOISTURE - ABOUT MARCH 1, 1967

Drainage Basin and Station	<u>1/</u> Station Number	Elev.	Soil Profile in Inches		Date	Soil Moisture Content in Inches			
			Depth	Cap.		1967	Past Record		Avg.
							1966	1965	
<u>GILA RIVER</u>									
Frisco Divide	8S1-M	8000	48	13.3	2/28	9.7	10.9	11.7	11.2
<u>SALT RIVER</u>									
Black River Divide	9S10-*	9100	48	16.8	2/26	17.3	18.1	17.9	15.2
Canyon Creek	10R7-M	7500	48	18.3	2/27	18.3	18.3	14.7	14.3
Corduroy Creek	10R8-*	6000	36	13.5	2/26	9.2	12.8	10.2	8.3
McNary	9R2-M	7200	48	16.3	2/26	14.4	17.9	17.9	13.9
<u>VERDE RIVER</u>									
Mormon Mountain	11R3-M	7500	48	16.1	2/27	17.3	17.7	17.7	14.7
Newman Park	11P5-M	6750	36	17.7	2/27	18.0	19.5	19.5	13.9

1/ * - Soil Moisture Station Only
M - Snow Course and Soil Moisture Station

SNOW COURSE

Baker Butte -----
 Baldy -----
 Bear Wallow -----
 Beaver Head -----
 Bill Williams Intermediate ----
 Bill Williams Summit -----
 Bright Angel -----
 Camp Wood -----
 Canyon Creek -----
 Canyon Point -----
 Chalender -----
 Copper Basin Divide -----
 Coronado Trail -----
 Crazy Horse -----
 Emory Pass -----
 Forest Dale -----
 Ft. Apache -----
 Fort Valley -----
 Frisco Divide -----
 Gaddes Canyon -----
 Grand Canyon -----
 Hannagan Meadows -----
 Happy Jack -----
 Hawley Lake -----
 Heber -----
 High Peak -----
 Hummingbird -----
 Ice King -----
 Inman -----
 Iron Springs -----
 Maverick Fork -----
 McKnight Cabin -----
 McNary -----
 Milk Ranch -----
 Mingus Mountain -----
 Mogollon -----
 Mormon Lake -----
 Mormon Mountain -----
 Mt. Ord -----
 Munds Park -----
 Newman Park -----
 Nutrioso -----
 Pacheta -----
 Redstone Trail -----
 Rose Canyon -----
 Silver Creek Divide -----
 Smith Cienega -----
 Snow Bowl #1 -----
 Snow Bowl #2 -----
 State Line -----
 White Horse Lake Junction -----
 White Spar -----
 Whitewater -----
 Williams Ski Run -----
 Willow Ranch -----
 Wilson Lake -----
 Workman Creek -----

SNOW SURVEYOR

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 N. A. Josh
 Forest Service - Chuck Scheier
 Forest Service - Chuck Scheier
 National Park Service - Bob Peterson
 Lyn Pehl
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 Forest Service - John Hafterson
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 Forest Service - Douglas Smith
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 Tiny Miller
 SCS and SRVWUA
 Rocky Mountain Forest & Range Exp. Station



The Following Organizations Cooperate in the Arizona Snow Survey Work

FEDERAL

Department of Agriculture

Soil Conservation Service

Forest Service

Apache Forest

Coconino Forest

Coronado Forest

Gila Forest

Kaibab Forest

Prescott Forest

Rocky Mountain Forest and Range Experiment Station

Tonto Forest

Department of Commerce

Weather Bureau

Arizona Section

Department of Interior

Bureau of Reclamation

Region III

Geological Survey

Arizona District

Bureau of Indian Affairs

Fort Apache Reservation

San Carlos Irrigation Project

National Park Service

Grand Canyon National Park

Gila Water Commissioner

Safford, Arizona

STATE

Arizona Agricultural Experiment Station

IRRIGATION PROJECTS

Salt River Valley Water Users' Association

Phoenix, Arizona

San Carlos Irrigation and Drainage District

Coolidge, Arizona

PRIVATE

Southwest Forest Industries, Inc.

McNary, Arizona

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

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*"The Conservation of Water begins
with the Snow Survey"*